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Freeze drying superoxidedismutase-holding liposome formulation - comprising stearyl amine and sugars dispersed in aq. medium

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B(4-B1B, 4-B2C, 4-D1, 5-B1P, 7-A2, 10-A7, 12-M11F)

N.B For "ribosome" read "liposome".

A superoxidedismutase (SOD)-holding ribosome formulation contg. stearyl amine as a ribose film material and sugars of at least one of glucose, cane sugar, or trehalose are dispersed into an aq. medium. The mixt. is then frozen and dried.

SOD pref. comprises SOD derived from Escherichia coli, yeast, or animals, esp. that derived from a cow or human. The ribosome film material comprises pref. natural phosphorollpid such as synthetic phosphorollpid, egg yolk, or soybean.

USE/ADVANTAGE - Formulation is used as an injection agent. Using stearyl amine-contg. film material, SOD-holding ribosome formulation, and sugars together offers freeze drying of the ribosome formulation without greatly decreasing the SOD holding rate or changing the grain dia. distribution of the ribosome grain. The frozen and dried ribosome formulation is promptly dispersed into a water medium, causing no bubble or aggregation of ribosome grain. The ribosome formulation has good long-term preservation stability, and safety. It is easily stored, transported and retains its quality; and are useful for medicines mfr. (5pp Dwg.No.0/0)